

The background of the entire page is a blue digital-themed graphic. It features a grid of glowing blue lines and squares, some of which are slightly offset, creating a 3D effect. Faint, stylized text and symbols are visible within the grid. The MACNERD Enterprises logo is centered in the upper half of the image, set against a black rectangular background.

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## Smart Contract Security Audit For: Racing Raptors

Date: January 1, 2023  
Pre-deployment Audit  
Authored By: Dev E. Loper  
Language: Solidity

# Disclaimer

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This smart contract audit may reveal client information.

This information may include, but is not limited to:

- Confidential client information
- Proprietary client information
- System vulnerabilities
- Intellectual property
- Methods to exploit system vulnerabilities

The security and/or dissemination of this report subsequent to MacNerd delivering to the client is at the sole discretion and responsibility of the client. MacNerd will not be held liable for any of the information contained in this report after delivery to the client.

## Project Scope

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MacNerd has tested this smart contract for commonly-known vulnerabilities.

These vulnerabilities include, but are not limited to:

- Re-entrancy
- Pseudo-Randomness Generation
- Gas Limit and Loops
- DoS with Unexpected Throw
- DoS with Block Gas Limit
- Loss of Customer Funds
- Unprotected Self-Destructs
- Access Control
- Unfixed Solidity Version
- Control of Flow

## Goals

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- Analyze the contract to find any security flaws that might result in the loss of customer funds.
- Find opportunities for gas optimization.

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## Informational Summary

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MacNerd performed a manual and automate assessment. The Solidity smart contract for Racing Raptors is well secured.

Automated checks were performed with Slither, Remix IDE & Hardhat Compiler.

Total Issues	0
Critical	0
High	0
Medium	0
Low	0
Very Low	0
Informational	0

## Evaluation and Code Review

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MacNerd has examined contract architecture to ensure that contracts standards and best practices are being used.

The Racing Raptors team did not provide the unit test strips.

## Functional Testing

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Functional testing is performed to ensure that all the services employed in the blockchain application are working as expected.

The functional testing MacNerd performed on Racing Raptors verifies that all services are working as expected.

## Documentation

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We were given the Racing Raptors source code as a Github Link:

<https://github.com/JEflyer/Racing-Raptors-V3/blob/main/contracts/secondaryMinter.sol>

The code was well commented & this is recommended as a best practice.

## File & Function Report

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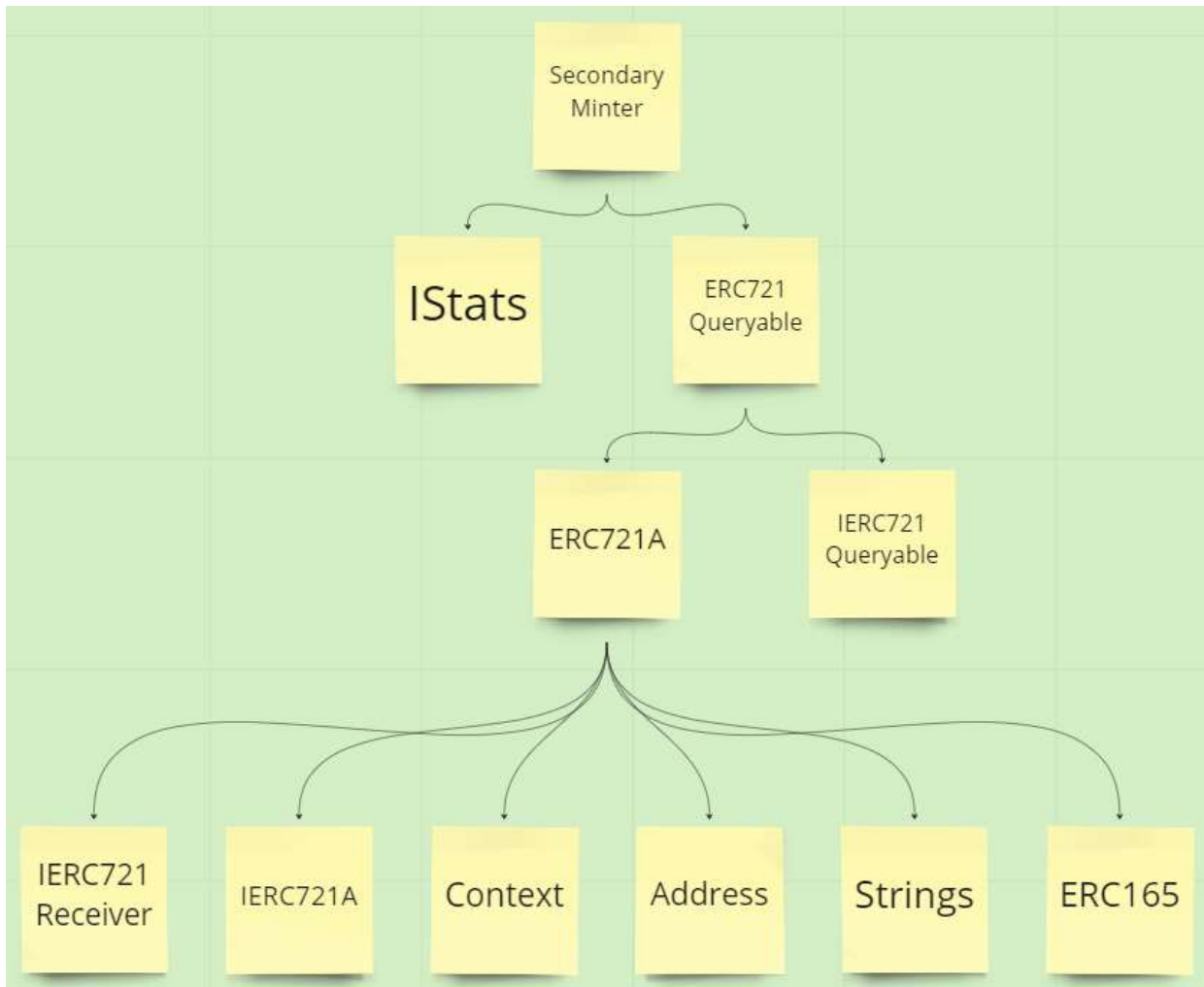
Observation: Passed

Test Report: Passed

ID	Function	Type	Observation	Test Report	Conclusion	Score
1	mint	write	Passed	All Passed	No Issue	Passed
2	changeAdmin	write	Passed	All Passed	No Issue	Passed
3	setTokenURI	write	Passed	All Passed	No Issue	Passed
4	tokenURI	read	Passed	All Passed	No Issue	Passed
5	burn	write	Passed	All Passed	No Issue	Passed
6	burnByStats	write	Passed	All Passed	No Issue	Passed

# Instance Hierarchy

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## Severity Definitions

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The definitions for risk levels are defined as follows:

**Critical:** A high-risk vulnerability that can be easily exploited, leading to loss of funds.

**High:** A high-risk vulnerability that is more difficult to exploit, but can be equally damaging.

**Medium:** An important vulnerability that needs to be addressed, but rarely leads to loss of funds.

**Low:** A low-risk vulnerability that usually involved outdated code or unnecessary functions.

**Informational:** Non-vulnerabilities that are opportunities for code improvement.

# Audit Findings

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MacNerd found the following vulnerabilities in each of the defined categories listed below.

Critical:

No critical severity vulnerabilities were found.

High:

No high severity vulnerabilities were found.

Medium:

No medium severity vulnerabilities were found.

Low:

No low severity vulnerabilities were found.

Very Low:

No very low severity vulnerabilities were found.

Informational:

No informational points were found.

## Summary

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Based on the contract provided to MacNerd by Racing Raptors, the security state of the reviewed contract is well-secured.

This is based on MacNerd having used static analyzers as well as manual testing. Zero (0) issues were found.

## Created By

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This report was created by the security team at <https://MacNerd.io>. If you have any questions, please reach out to us at [contact@macnerd.io](mailto:contact@macnerd.io)